CLAIMS

1. Method for coordinating telecommunications
services (2) provided to a plurality of users, by means
5 of telecommunications terminals (3, 4, 5) connected to
various telecommunications networks (1), which method
includes steps in which a service mediation server (10)
coordinates the processing operations performed by
various telecommunications services on behalf of each
10 of the users, characterised in that it also includes
steps in which:
        - the telecommunications services (2) connect to
the service mediation server (10) and specify events of
which they must be notified by the service mediation
15 server, and/or events that they are capable of
transmitting to the service mediation server,
        - the telecommunications terminals (3, 4, 5) of
the users connect to the service mediation server,
transmit, to the service mediation server, user
20 profiles specifying availability modes, which are
stored in a database (18), activate profiles and
previously specified availability modes, and access the
connected services,

- the service mediation server determines a state of connectability of each user on the basis of the existence of at least one user terminal connected to the server, and the user's active availability mode and
5 profile,

- the service mediation server transmits to each connected terminal the state of connectability of users specified in a list of contacts forming part of the active profile of the terminal user,

10 - the service mediation server transmits, for each event received from a service, an event notification to the connected services having specified that they must be notified of the event.

2. Method according to claim 1, characterised in
15 that each availability mode specified by a user includes:

- an availability state capable of having the values: available, not available, in call transfer to a specified call number, or unknown if the user does not
20 want his/her availability state to be accessible,

- an optional terminal identifier to which an incoming call intended for the user is transferred,

- an event notification mode, and

- a list of contacts to which the availability
25 state applies.

3. Method according to claim 2, characterised in that each availability mode specified by a user also includes availability rules specifying periods in which the availability mode is active.

30 4. Method according to one of claims 1 to 3, characterised in that the connectability state

determined by the service mediation server can be in one of the following states:

- connectable if the active availability mode of the user is in the available state and if at least one user terminal is connected to the service mediation server,

- not connectable if the user is not available or if no user terminal is connected to the service mediation server,

- access to the connectability state subject to authorisation if the user wants his/her connectability state to be provided to other users only with his/her prior authorisation,

- in transfer if the user specified that incoming calls intended for him/her must be transferred to a call number specified in the active availability mode,

- unknown if the requested user is not registered with the service mediation server, or if he/she does not want his/her connectability state to be accessible.

5. Method according to one of claims 1 to 4, characterised in that the transmission of event notifications by the service mediation server is carried out upon the request of each connected service.

6. Method according to one of claims 1 to 4, characterised in that the transmission of an event notification by the service mediation server is performed upon receipt of the event if the service is connected; otherwise, the event is stored in a log and is notified to the service when the latter connects to the service mediation server.

7. Server for mediation of telecommunications
services provided to a plurality of users, by means of
telecommunications terminals connected to various
telecommunications networks, including a service
5 coordination module (11) designed to coordinate the
processing operations performed by the
telecommunications services on behalf of each of the
users, characterised in that it also includes:
- at least one database (18) containing all of the
10 data concerning the users, which is necessary for the
service mediation server (10) and the services,
- an availability server (12) designed to manage
and determine at any time the availability of the users,
according to active availability modes and rules,
15 specified by the users and stored in the database,
- a service management module (16) designed to
receive, from each service, an entry specifying events
of which the services are to be notified and/or events
transmitted by the service, and
20   - an event notification module (13) designed to
receive and notify the appearance of events to
telecommunications services that have requested it,
- the service coordination module (11) including
means for determining a connectability state of each
25 user for each of his/her profiles according to the
existence of at least one user terminal connected to
the server, and the user's active availability mode and
profile, and means for transmitting, to each connected
terminal, the connectability state of users specified
30 in a list of contacts forming part of an active profile
of the terminal user.

8. Service mediation server according to claim 7, characterised in that it also includes an authentication / identification module (15) responsible for identifying and authenticating the users when they
5   access the service mediation server (10) or certain services.

9. Service mediation server according to claim 7 or 8, characterised in that it also includes an interface module (14) providing access to the service
10   mediation server (10) by means of a telecommunications network (1), which module is designed to receive processing requests, from services or users, and to retransmit them to a component of the server responsible for performing the requested processing
15   operation, and transmitting, in response to these requests, the responses provided by the components of the server.

10. Service mediation server according to claim 9, characterised in that the interface module (14)
20   comprises a plurality of duplicated components so as to ensure fault tolerance.

11. Service mediation server according to one of claims 7 to 10, characterised in that it also includes an access monitor (7) including:
25   - means for connecting a user terminal (3, 4, 5) to the mediation server (10) and disconnecting it from the server,
          - means for connecting a service (2) to the mediation server (10) and disconnecting it from the
30   server,

- means for managing, in real time, the various services activated for the user,

- means for selecting a profile to be activated and an availability mode in the profile to be activated,

5 · - means for selecting events of which the user wants to be notified of the appearance, and

- means for selecting a terminal to receive an incoming call.

12. Computer program designed to be implemented on
10 a server for mediating telecommunications services provided to a plurality of users, by means of telecommunications terminals (3, 4, 5) connected to various telecommunications networks (1), characterised in that it includes instructions for implementing the
15 steps of the method according to one of claims 1 to 6, executed by the service mediation server.

13. Telecommunications server (2) providing telecommunications services to a plurality of users, by means of telecommunications terminals (3, 4, 5)
20 connected to various telecommunications networks (1), characterised in that it includes:

- means for connecting to the service mediation server (10) according to one of claims 7 to 11,

- means for specifying and transmitting, to the
25 service mediation server, events of which it must be notified by the service mediation server, and/or events that it is capable of transmitting to the service mediation server, and

- means for receiving, from the service mediation
30 server, event notifications coming from other

telecommunications services and having been specified as being required to be notified to it.

14. Computer program designed to be implemented on a telecommunications server (2) providing telecommunications services to a plurality of users, by means of telecommunications terminals (3, 4, 5) connected to various telecommunications networks (1), characterised in that it includes instructions for implementing the steps of the method according to one of claims 1 to 6, executed by a telecommunications service.

15. Information system including a plurality of telecommunications terminals (3, 4, 5) of users connected to various telecommunications networks (1), a plurality of servers (2) providing telecommunications services on behalf of the users, and a service mediation server (10) designed to coordinate the processing operations performed by the telecommunications services (2), characterised in that the service mediation server (10) is consistent with one of claims 7 to 11.